



TILTIX Inclinometer

ADS-020-2-AV10-HK2-CW



General Specifications

Application	2-Axes Position Monitoring and Leveling
Measurement Range	$\pm 20^\circ$
Absolute Accuracy	0.50°
Resolution	0.01°

Electrical Specifications

Supply Voltage	10 - 30 VDC
Power Consumption (no load)	$\leq 0.7 \text{ W}$
EMC: Emitted Interference	DIN EN 61000-6-4
EMC: Noise Immunity	DIN EN 61000-6-2
Reverse Polarity Protection	Yes
Short Circuit Protection	Yes

Environmental Specifications

Operating Temperature	-40°C (-40°F) - $+80^\circ\text{C}$ ($+176^\circ\text{F}$)
Storage Temperature	-40°C (-40°F) - $+85^\circ\text{C}$ ($+185^\circ\text{F}$)
Temperature Gradient	$0.004^\circ/\text{K}$
Protection Class	IP68/IP69K
Shock Resistance	$\leq 100 \text{ g}$ (half sine 6 ms, EN 60068-2-27)
Vibration Resistance	1.5 mm (10 Hz - 58 Hz) & $\leq 20 \text{ g}$ (58 Hz to 2000 Hz)

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Mechanical Specifications

Housing Material	Die-Cast Aluminum Alloy
Potting Material	PUR (Polyurethane)
Weight	370 g (0.82 lb)

Certificates / Lifetime

MTTF	400 years @ 40 °C
Certificates	CE

Interface

Interface	Analog Voltage 0 - 5 V
Settling Time	125 ms
Output Type	Voltage 0 - 5 V
Min Load Resistance	5 k Ω
Linearity	$\pm 0.02\%$



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Electrical Connection

Connection Type	Cable 1 m
Cable Length	1 m [39"]
Wire Cross Section	0.34 mm ² / AWG 22
Material / Type	PUR / PU
Cable Diameter	7.5 mm (0.30 in)
Minimum Bend Radius	56 mm (2.2") fixed, 75 mm (3") flexing

Product Life Cycle

Product Life Cycle	Established
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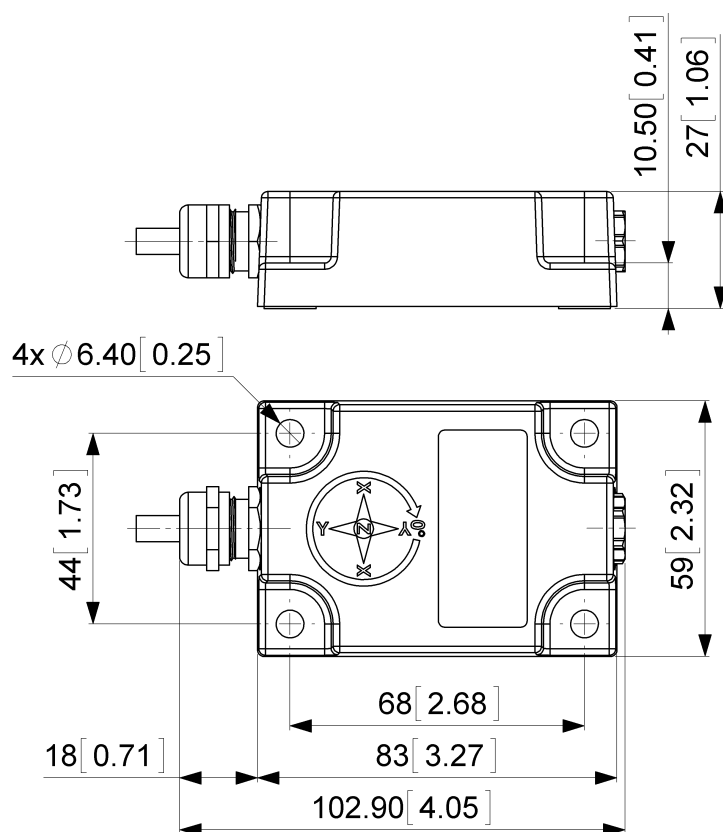
Connection Plan

SIGNAL	CABLE COLOR
Power Supply	Red
GND	Yellow
X-Axis, Voltage Output	Green
Y-Axis, Voltage Output	Blue
Set1	Brown
Do Not Connect	Gray
Do Not Connect	Pink
Do Not Connect	White
Shielding	Shield

Dimensional Drawing

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[2D Drawing](#)

Accessories

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All dimension in [inch] mm. This drawing and the information contained is for general presentation purposes only. Please refer to the "Download" section for detailed technical drawings. © FRABA B.V., All rights reserved. We do not assume responsibility for technical inaccuracies or omissions. Specifications are subject to change without notice.

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